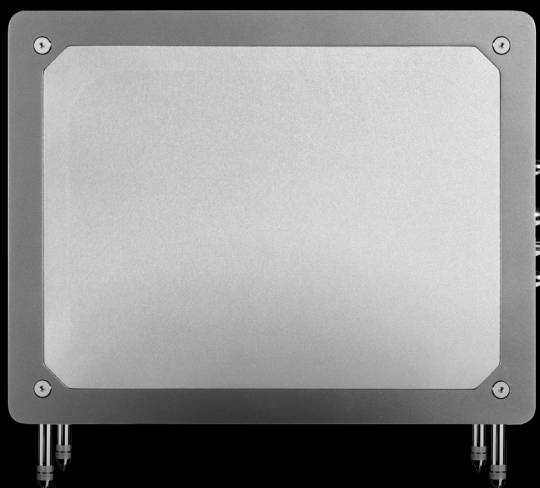


TANNOY®

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HIGHLINE TS 300 TS 500



OWNER'S MANUAL

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IMPORTANT SAFETY INSTRUCTIONS

Please read through this guide before you set up your TS300 or TS500 Subwoofers with your Home Theatre system.

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with dry cloth.
7. Do not block any ventilation openings. Install in accordance with instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.
12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.



13. Unplug this apparatus during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
15. Do not expose this apparatus to dripping or splashing and ensure that no objects filled with liquids, such as vases, are placed on the apparatus.
16. To completely disconnect this apparatus from the AC Mains, disconnect the power supply cord plug from the AC receptacle.
17. The mains plug of the power supply cord shall remain readily operable.
18. Do not expose batteries to excessive heat such as sunshine, fire or the like.



The lightning flash with arrowhead symbol within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.

WARNING: To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.

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ELECTRICAL REQUIREMENTS

Check that the voltage rating displayed on the rear panel is correct for your area before connecting. If it is incorrect, **DO NOT CONNECT THE MAINS LEAD TO THE MAINS SUPPLY**. Seek assistance from your dealer or a qualified electrician or instructed person.

EUROPEAN MODELS

A mains cable is supplied with an IEC moulded socket at one end and a moulded mains plug at the other end. Where the moulded plug is fitted with a mains fuse, always replace with the same 5A rated fuse.

If the fitted plug is unsuitable for your type of outlet sockets, it should be cut off and disposed of safely, in case it is inserted into a live socket elsewhere. The wires in the mains cable are coloured in accordance with the following code:

GREEN AND YELLOW- EARTH

BLUE- NEUTRAL

BROWN- LIVE

AS THE COLOURS OF THE WIRES IN THE MAINS CABLE MAY NOT CORRESPOND WITH THE COLOURED MARKINGS IDENTIFYING THE TERMINALS IN YOUR PLUG, PROCEED AS FOLLOWS:

The wire which is coloured GREEN AND YELLOW must be connected to the terminal in the plug which is marked either by the letter E, the earth safety symbol, or coloured GREEN or GREEN and YELLOW.

The wire which is coloured BLUE must be connected to the terminal in the plug which is marked by the letter N or coloured BLACK.

The wire which is coloured BROWN must be connected to the terminal in the plug which is marked by the letter L or coloured RED.

Ensure that the terminals are tightened securely, and no loose strands of wire are present.

Ensure cord grip is clamped over outer sheath of cable, rather than over the wires.

FUSE PROTECTION

An additional mains fuse is provided in the IEC power inlet on the back of the subwoofer, which can only be removed with the power cord unplugged, using a small screwdriver. This must be replaced by a fuse of the same type and rating (see Specifications or refer to rear panel).

WARRANTY

Please complete and return the enclosed warranty registration document - this does not limit your legal rights. This equipment has been produced and tested with care and precision. It is built to give first class service and carries a 1-year warranty. If the equipment proves to be defective within this period for any reason other than accident, misuse, unauthorised modification or fair wear and tear, Tannoy will repair any such defect or, at our option, replace it without charge for parts, labour or return carriage. This warranty is given in addition to the customer's statutory rights.

INTRODUCTION

Tannoy TS series high performance subwoofers for Home Theatre applications have been built and tested with care and precision to provide first class performance and reliable operation. To ensure maximum benefit from ownership and for reasons of safety, please read through all the information in this owner's manual before operating and using your system for the first time.

Tannoy TS Series subwoofer systems are primarily designed for use with the following equipment:

- An AV or Home Cinema Receiver with integral 5.1 or 6.1 decoder, 5 or 6 separate power amplifiers and a line level LFE or Subwoofer output.
 - An integrated DVD player with 5.1 or 6.1 decoder, 5 or 6 power amplifiers and a line level LFE or Subwoofer output.
 - A 5.1 or 6.1 decoder with a line level LFE or Subwoofer output.
- 5.1 or 6.1 refers to the number of speakers + subwoofer. A 5.1 system has 5 speakers of varying functions and 1 subwoofer. Decoders separate digital signals from DVD, CD or Digital Broadcast sources into 5 or 6 separate audio channels which feed separate speakers in a Home Theatre system. They also provide an extra output channel which feeds a subwoofer, usually through an RCA (or Phono) socket and a screened coaxial cable. You will need such a cable of suitable length to set up your system, see below.

Tannoy TS Series subwoofers provide very low frequency sounds and special effects which are beyond the capability of the other speakers in the system. TS subwoofers support low frequencies for all 5 or 6 audio channels. They are specially designed very high power units with their own built-in amplification capable of reproducing very low frequencies at realistic levels to enhance music and movie experiences. In a Home Theatre system the 5.1 or 6.1 decoder provides a special subwoofer output signal which you connect directly into the Tannoy TS Series subwoofer, using a suitable cable. The subwoofer output socket on your equipment is usually labelled 'LFE' (Low Frequency Effects) or 'SUB' or 'SUBWOOFER' output.

PLEASE REFER TO YOUR LOUDSPEAKER USER MANUAL FOR GENERAL GUIDANCE IN CONNECTING YOUR 5 or 6 SPEAKERS TO YOUR AV RECEIVER OR AMPLIFIER

SYSTEM SETUP GUIDE

Decide which orientation of the subwoofer suits your layout (see diagrams). TS300 and TS500 subwoofers are unique in that they can be used in various orientations depending on available space and desired visual effect. There are 3 choices of orientation: Low Profile, Portrait, or Landscape.

Low Profile orientation:

Locate 4 spikes, 4 lock rings, 4 spike extenders and 4 floor protectors in the accessory pack.

Assemble 4 spikes/lock rings/extendors according to the diagram and screw them into the threaded holes on the bottom face of the cabinet as shown.

Place the subwoofer with the spikes facing downwards to contact the floor or pierce the carpet.



Landscape or Portrait Profile orientation:

Locate 4 spikes, 4 lock rings and 4 floor protectors in the accessory pack.

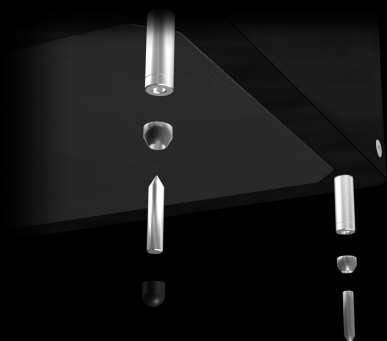
Assemble 4 spikes/lock rings and screw them into the set of threaded holes on the correct face of the cabinet as shown in the diagram, choosing between landscape or portrait orientation as required.

Place the subwoofer with the spikes facing downwards to contact the floor or pierce the carpet.



The spikes are designed to pierce carpet and underlay without damage, to make contact with a structural floor surface underneath - for polished wood floors invert the spike and fit the rubber floor protectors to the rounded end of the spike.

In all cases of orientation you must adjust the height of the spikes to prevent the subwoofer from rocking. It must be solidly connected to the floor through the spikes. When all is well, finally tighten the locking nuts.



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SYSTEM SETUP GUIDE - CONTINUED

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Connecting your TS Subwoofer

Your TS Series subwoofer should be connected directly to your 5.1 or 6.1 decoder, AV home cinema receiver or integrated DVD/decoder/amplifier as follows:

Locate the RCA or Phono socket on your DVD equipment labelled 'LFE OUT', 'SUB OUT' or 'SUBWOOFER OUTPUT'.

Using a single RCA to RCA (also called Phono to Phono) good quality screened interconnect cable of suitable length, connect from the 'LFE/SUB/SUBWOOFER OUTPUT' on your equipment to the 'LFE/SUB' input on the TS subwoofer.

Locate and connect the mains lead supplied to the TS subwoofer.

DO NOT CONNECT THE MAINS LEAD (POWER CORD) TO THE MAINS POWER SUPPLY JUST YET.

SETTING UP TO LISTEN

Make sure the POWER switch on the TS subwoofer, adjacent to the mains inlet socket, is in the OFF position. The switch is set to OFF when the rocker button adjacent to OFF is pressed in. Set the subwoofer controls as follows:

- Set the VOLUME control to MIN.
- Set the PHASE control to 0°.
- Set the LFE Mode switch to ON.

The LFE switch bypasses the subwoofer internal crossover function. The crossover frequency function is provided by the 5.1 or 6.1 decoder. If you wish to have manual control of the subwoofer crossover frequency set this switch to OFF and operate the CROSSOVER control between 50Hz and 150Hz. In this case set your speaker settings within the decoder set up menu to LARGE. Otherwise set them to SMALL within the decoder set up menu. Set your 5.1 receiver/decoder menu settings to SMALL SPEAKERS, LFE or SUB output to ON, and play a favourite movie at normal volume settings. Refer to the equipment manufacture's instruction manual if you need help in making these settings.

- Connect the TS subwoofer to a convenient mains socket using the lead and plug supplied.
- Switch the TS subwoofer power switch (adjacent to the mains inlet) to ON by pressing on the rocker switch adjacent to ON.
- Slowly increase the subwoofer VOLUME control from Min to about half way round.
- Assess the bass signal strength and set the TS Subwoofer VOLUME control accordingly.

The purpose of a subwoofer is to enhance the bass or low frequencies but not to overpower the music or film dialogue. The set up can be checked by using the noise signal calibration facility in most 5.1 and 6.1 receiver/decoders using the 'set up' or 'test' menu options. Using this noise signal the TS Series subwoofer will produce a low frequency sound - a little like a continuous distant thunderstorm. The sound level intensity from the subwoofer should match that of the other speakers in your system as the signal is cycling through.

FINAL POSITIONING OF THE SUBWOOFER

The TS subwoofer produces low frequency sounds only. It is difficult to detect the direction or location of low frequency sounds by ear. The subwoofer can therefore be placed in any convenient position in the room, but optimum performance will be gained by locating the subwoofer somewhere between the front pair of speakers. Low frequency output will increase when placed next to a wall and especially so when placed in a corner, so use the VOLUME control to compensate if moving your subwoofer around the room. The phase of the subwoofer may be changed between 0° & 180° (degrees) by operating the PHASE (Degrees) control on the back panel. In certain room positions the bass quality may be improved by setting the PHASE (Degrees) control between 0° to 180°. Some experimentation is required.

LF EXTENSION 'MUSIC/THEATRE' CONTROL

This control allows you to optimise the bass extension and upper bass response shape for CDs and music videos. When playing movies set the control to 'THEATRE'. When playing music CDs videos and music DVDs set the control to 'MUSIC'. Some experimentation is recommended and setting to half way will usually provide a satisfactory result on both types of media. For optimum movie sound impact set to 'THEATRE'. For optimum CD quality set to MUSIC.

AUTO POWER/ SLEEP FUNCTION

The TS Series subwoofers can be left permanently connected to the mains supply in power saving mode by switching the ON/AUTO switch to AUTO. In AUTO mode, when a signal is present from the 5.1 or 6.1 decoder the subwoofer will 'wake up' and operate normally. When a signal is absent for approximately 12 minutes, it will go back to 'sleep mode' and then consumes very little power. If you are not using your subwoofer for long periods of time, for example going on holiday, then switch the mains switch adjacent to the IEC mains inlet connector to OFF and remove the power cable (cord) plug from the mains outlet.

TECHNICAL SPECIFICATIONS TS300

PERFORMANCE

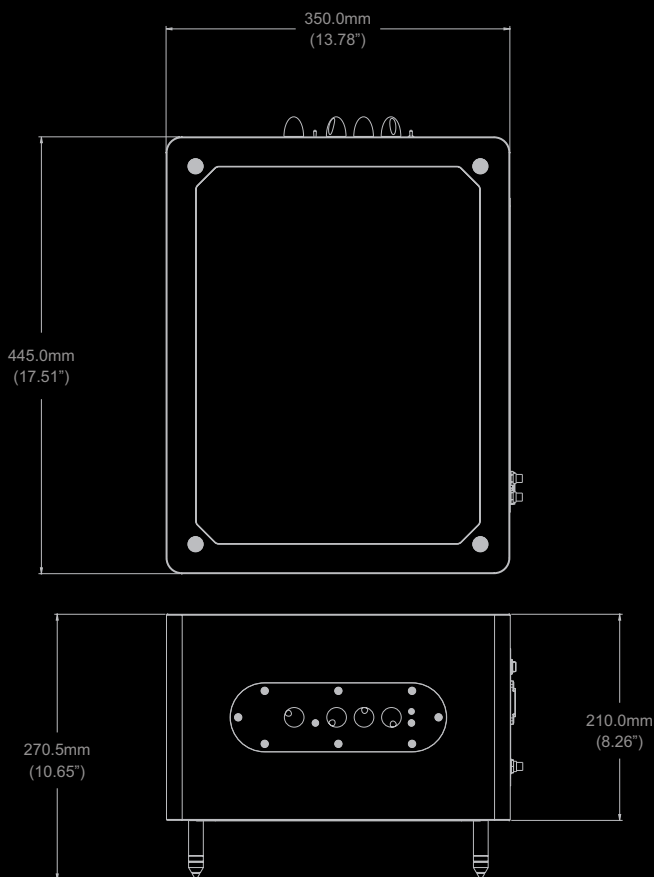
Output Power	300W RMS
Low Frequency Response	29Hz (-6dB)
Limit For Usable Output	16Hz
Input	2 x line level phono
Input Filter	2nd order low pass, 50Hz – 150Hz (-6dB)
Auto Mute	After approximately 12 mins., in absence of input signal

DRIVE UNIT

Driver Type	250mm (10")
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CONSTRUCTION

Enclosure Type	Closed box
Enclosure Volume	20.0 litre (0.7 cu.ft.)
Additional Features	Phase control, Crossover defeat switch for LFE operation, Soft limiting to avoid overload, LF extension control
Enclosure Dimensions (excluding feet)	445 x 350 x 210mm (17.51 x 13.78 x 8.26")
Enclosure Weight	13kg (28.7lbs)
Mains Voltage	120V nominal AC ~ 60Hz, 230V nominal AC ~50Hz
Mains Fuse	120V – T3.15AL/ 250V, 230V – T1.6AL/ 250V
Maximum Power Consumption	416VA



TECHNICAL SPECIFICATIONS TS500

PERFORMANCE

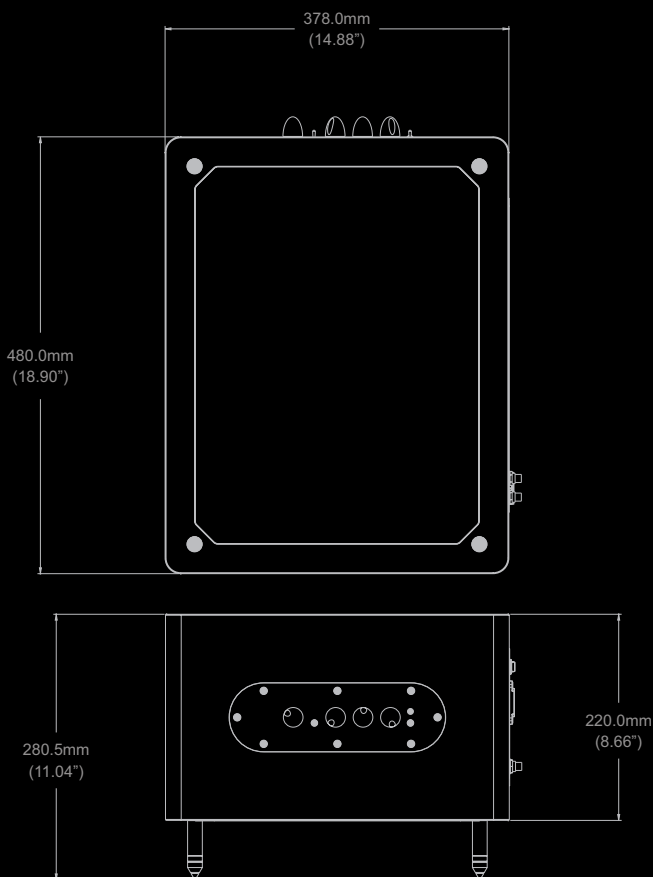
Output Power	500W RMS
Low Frequency Response	26Hz (-6dB)
Limit For Usable Output	15Hz
Input	2 x line level phono
Input Filter	2nd order low pass, 50Hz – 150Hz (-6dB)
Auto Mute	After approximately 12 mins, in absence of input signal

DRIVE UNIT

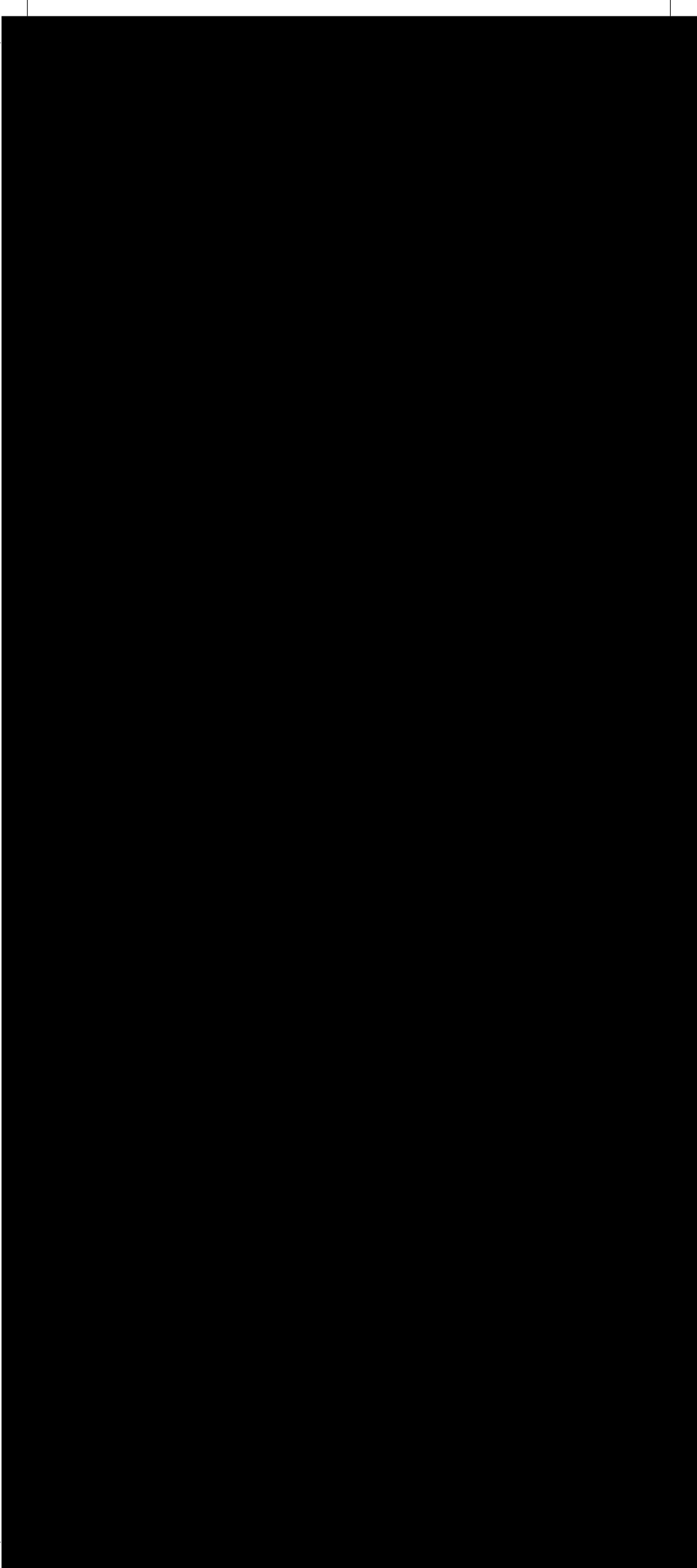
Driver Type	300mm (12")
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CONSTRUCTION

Enclosure Type	Closed box
Enclosure Volume	22.0 litre (0.78 cu.ft.)
Additional Features	Phase control, Crossover defeat switch for LFE operation, Soft limiting to avoid overload, LF extension control
Enclosure Dimensions (excluding feet)	480 x 378 x 220mm (18.90 x 14.88 x 8.66")
Enclosure Weight	15kg (33.1lbs)
Mains Voltage	120V nominal AC ~ 60Hz, 230V nominal AC ~50Hz
Mains Fuse	120V – T5.0AL/ 250V, 230V – T2.5AL/ 250V
Maximum Power Consumption	600VA



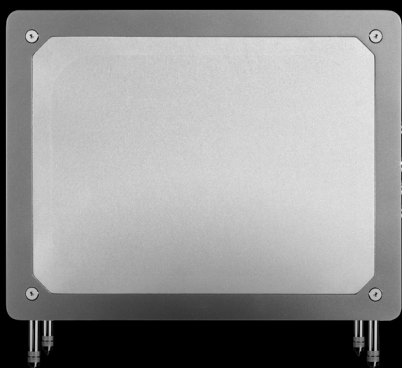
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Tannoy has a policy of continuous improvement and this specification sheet provides the latest information at the time of printing. All specifications may be subject to further change. Please contact the Tannoy website for the latest information.

The Tannoy TS300 and TS500 subwoofers are designed by Tannoy Ltd and manufactured for Tannoy Ltd to rigid specifications in accordance with CE, CCC, CB and CSA international safety regulations.

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